

Application No. 09/887,144
Response to Office Communication on 09/13/2005

Attorney's Docket No. 0119-062

LISTING OF CLAIMS

17. (Cancelled)

18. (Currently amended) The antenna according to claim 17, wherein An antenna for a portable communication apparatus, the antenna comprising a radiator having a first end to be connected to radio circuitry in the portable communication apparatus, and a second end, a feedback conductor having a first end, which is electrically connected to the second end of the radiator, the feedback conductor extending along the radiator in a first direction from the second end of the radiator towards the first end of the radiator, wherein the feedback conductor includes a second end, extending along the radiator in a second direction towards the second end of the radiator, for tuning a frequency range of the antenna, and said radiator is an elongated helical radiator.

19. (Previously presented) The antenna according to claim 18, wherein the second end of the feedback conductor is wound in at least one turn outside the helical radiator near the first end of the helical radiator.

20. (Previously presented) The antenna according to claim 18, wherein the second end of the feedback conductor is isolated and bent substantially 180°, wherein at least a portion of said isolated end of the feedback conductor extends inside at least a portion of the helical radiator substantially in parallel with a longitudinal axis of the helical radiator.

21. (Previously presented) The antenna according to claim 18, wherein the second end of the feedback conductor is isolated and bent substantially 180°, wherein at least a portion of the isolated end of the feedback conductor extends outside the helical radiator substantially in parallel with a longitudinal axis of the helical radiator.

22. (Previously presented) The antenna according to claim 20, further comprising a base plate and at least one satellite radiator mounted on said base plate.

23. (Previously presented) The antenna according to claim 22, wherein two satellite radiators are mounted at opposite edges of the base plate and the helical radiator is positioned between the two satellite radiators.

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24. (Previously presented) The antenna according to claim 22, wherein three satellite radiators are mounted at respective edges of the base plate and the helical radiator is positioned between the three satellite radiators.

25. (Previously presented) The antenna according to claim 17, wherein the radiator and the feedback conductor are molded into a dielectric material.

26. (Previously presented) The antenna according to claim 17, wherein the radiator and the feedback conductor are enclosed in a dielectric radome.

27. (Previously presented) The antenna according to claim 17, wherein the radiator comprises a printed-pattern meander-shaped conductor.

28. (Previously presented) The antenna according to claim 17, wherein the radiator comprises a patch antenna element.

29. (Previously presented) A multi-layer printed circuit board, comprising an antenna including a radiator having a first end to be connected to radio circuitry in the portable communication apparatus, and a second end, a feedback conductor having a first end, which is electrically connected to the second end of the radiator, the feedback conductor extending along the radiator in a first direction from the second end of the radiator towards the first end of the radiator, wherein the feedback conductor includes a second end, extending along the radiator in a second direction towards the second end of the radiator, for tuning a frequency range of the antenna.

30. (Canceled)

31. (Canceled)

32. (Canceled)